Human Factors
research and technology division

Systems Safety Research Branch (THS)

The research and development efforts of the Systems Safety Research Branch (Code THS) focus on the operational needs of the aerospace communities as viewed from a human factors perspective. Much of our research is conducted in collaboration with our aeronautical, as well as our space partners, often utilizing their facilities and their trained personnel in true operational settings. Although our research addresses efficiency and effectiveness, a primary concern is for safety, both for individual operations and for the system as a whole.

Research emphases include fatigue countermeasures; cognitive mechanisms that determine skilled performance in complex, real-world tasks (such as decision-making, concurrent task management, and team communication and coordination); and the analysis and management of data in support of proactive risk management. Our products are generally in the form of support tools, recommendations, models, and guidelines for operational procedures, scheduling, design specifications, and training.

Research Focus Areas:

- Understanding Human Error
- Flight and Ground Crew Training
- Team Communication and Decision Making
- Maintenance Resource Management
- Proactive Risk Management
- Fatigue Modeling and Countermeasures
- Aviation Safety Reporting Systems

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URL: http://humanfactors.arc.nasa.gov/ihs/